Application No. Index of Claims 10/705,582 Examiner

Applicant(s) MCCOLGAN ET AL. Art Unit

Robert P. Swiatek

(Through numeral) Rejected Cancelled Restricted Allowed

Non-Elected Ν Interference

Appeal Α 0 Objected

3643

| Cla          | aim      | Date         |  |  |          |  |                  |               |                | Claim Date |   |            |          |                 |          | :::::   | Cla             | aim      | Date |          |       |          |          |          |                 |          |          |          |          |          |           |          |
|--------------|----------|--------------|--|--|----------|--|------------------|---------------|----------------|------------|---|------------|----------|-----------------|----------|---------|-----------------|----------|------|----------|-------|----------|----------|----------|-----------------|----------|----------|----------|----------|----------|-----------|----------|
|              |          |              |  |  |          |  |                  |               |                | 1          |   |            |          |                 |          |         |                 |          |      |          |       |          |          |          |                 |          |          | ㅓ        |          |          |           |          |
| Final        | Original |              | 11/30/04   |  |          |  |                  |               |                |            |   | Final      | Original |                 |          |         |                 |          |      |          |       | Final    | Original |          |                 |          |          |          |          |          |           |          |
| 1            | 1        |              | =  |  |          | Г  | <b>†</b>         | Г             | T              |            | ۱ |            | 51       | H               | _        | 1       | H               | $\top$   | +    | 1-       |       |          | 101      |          | _               | _        | $\neg$   | _        | $\neg$   | 十        | $\dashv$  | ᅱ        |
| 2            | 2        |              | =  |  |          | ┢  | <u> </u>         | Η-            | $\vdash$       | 1          | 1 |            | 52       | ┱               | $\top$   | +       | ⇈               | ╅        | +-   | 1        |       |          | 102      | $\vdash$ | +               | $\dashv$ | -        | -        | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| 3            | 3        | Н            | =  |  | _        | -  |                  | -             | ┢              | ┢          | 1 |            | 53       | $\vdash$        | $\dashv$ |         | $\vdash$        | -        | +    | +        |       |          | 103      |          | $\vdash$        | -+       | -        |          | _        |          | $\dashv$  | $\dashv$ |
| 6            | 4        | -            | =  | Н  |          |  | $\vdash$         | $\vdash$      | ┢              | ⊢          |   | $\vdash$   | 54       | $\vdash$        |          | +-      | $\vdash$        | ╅        | ╅    | $\vdash$ |       |          | 104      |          |                 | $\dashv$ | $\dashv$ | -        | -        | $\dashv$ | $\dashv$  | ᅱ        |
| 4            | 5        | -            | =  | -  | _        | $\vdash$   | ⊢                | -             | ⊢              | ⊢          | ╢ | <b>-</b>   | 55       | $\vdash$        | -        | +       | $\vdash$        |          | -}   | ╁        |       |          | 105      | $\dashv$ |                 | $\dashv$ | $\dashv$ | -        | -        | $\dashv$ | $\dashv$  | 一        |
| 5            | 6        | Н            | =  | H  |          | $\vdash$   | $\vdash$         | -             |                | $\vdash$   | - |            | 56       | $\vdash$        |          | +       | ┨               |          | ╅    | $\vdash$ |       |          | 106      |          | -               | -+       | $\dashv$ | -        |          | +        | _         | $\dashv$ |
| 7            | 7        | -            | =  |  | _        | -  | ┢                | -             | ⊢              | ┝          | ł |            | 57       | ┤               |          |         | ┨               |          | ┿    | ┼        |       |          | 107      | _        | +               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | -         | $\dashv$ |
| 8            | 8        | ┝            | =  | <u> </u>   | _        | -  | ⊢                | ⊢             | ┢              | ⊢          | 1 | -          | 58       | $\vdash$        |          | +-      | ↤               | +        | +    | $\vdash$ |       |          | 107      |          | -               | -        | -        | $\dashv$ | $\dashv$ | -        | $\dashv$  |          |
| 9            | 9        | $\vdash$     | =  | -  |          | -  | ⊢                | ┢             | ┢              | $\vdash$   | - |            | 59       | $\vdash$        |          | +       | $\vdash$        | -        | +-   |          |       |          |          |          | $\vdash$        | $\dashv$ |          | $\dashv$ | $\dashv$ | +        | $\dashv$  | 긕        |
|              |          | -            |  | -  | _        | $\vdash$   | $\vdash$         | $\vdash$      | $\vdash$       | $\vdash$   |   |            |          | $\vdash$        |          | +       | $\vdash$        | +        | +    | +        |       |          | 109      |          | -               | $\dashv$ |          | $\dashv$ | -        | +        | $\dashv$  | $\dashv$ |
| 10           | 10       | <u> </u>     | =  |  | _        | $\vdash$   | ⊢                | ⊢             | ┡              | ⊢          | 4 | _          | 60       | $\vdash$        | +        | +-      | $\vdash$        | +        | +-   |          |       |          | 110      | -        |                 | $\dashv$ | -        |          | -        | 4        | $\dashv$  | 4        |
| 11           | 11       | $\vdash$     | =  | $\vdash$   | <u> </u> | <u> </u>   | $\vdash$         | -             | $\vdash$       | -          | 1 | <u> </u>   | 61       | $\vdash \vdash$ |          | ╁       | ┥               | +        | +    | -        |       |          | 111      | $\vdash$ | $\vdash$        | +        |          |          | _        | -        | -         | 4        |
| 12           | 12       | $\vdash$     | =  | $\vdash$   | -        |  | ├                | ├             | -              | ⊢          | 4 | <u> </u>   | 62       | ₩               | +        | +       | ┥               |          | -    | H        |       | ļ        | 112      | Щ        | $\vdash$        |          | _        |          | _        |          | 4         | _        |
| <u> </u>     | 13       | <del> </del> | $\vdash$   | <del> </del>                                     | _        | ⊢  | ├                | $\vdash$      | $\vdash$       | ⊢          | 4 | <b>├</b> ─ | 63       | $\vdash$        | -        | +       | $\vdash$        | +        | _    | ـ        |       |          | 113      | <u> </u> | $\vdash$        | 4        | _        |          | 4        | 4        | ·         | _        |
| ऻ—           | 14       | $\vdash$     | $\vdash$   | $\vdash$   |          | <u> </u>   | <del> </del>     | <b> </b>      | <del> </del> - | -          | 4 | <u> </u>   | 64       | $\vdash$        | 4        | +       | $\vdash$        | -        |      | ╄        |       |          | 114      |          | $\sqcup$        | 4        | _        |          |          | _        | 4         | _        |
|              | 15       | <u> </u>     | <u> </u>   | <u> </u>   | L        |  | ⊢                | <u> </u>      | <u> </u>       | <u> </u>   |   | <u> </u>   | 65       | $\sqcup$        | $\dashv$ | $\bot$  | $\vdash$        |          |      |          |       |          | 115      |          | $\sqcup \bot$   | _        | _        | _        | _        | _        | _         | $\Box$   |
|              | 16       | ᆫ            | _  | _  |          | _  | _                | L.            |                | <u> </u>   |   |            | 66       | $\sqcup$        | $\perp$  | _       | 1               |          |      | <u> </u> |       |          | 116      |          |                 |          | _        | _        |          |          | _         |          |
|              | 17       | _            |  | _  | L.       |  |                  | ╙             | _              | ļ_         |   |            | 67       | Ш               |          |         | LJ              | _        |      | _        |       |          | 117      |          | Щ               |          | ᆜ        | _        | _        |          | _         |          |
|              | 18       | _            |  | 匚  |          | L  | L                | L             | <u> </u>       |            |   |            | 68       | Ш               |          |         | Ш               |          |      |          |       |          | 118      |          |                 |          |          |          |          |          | $\Box$    |          |
|              | 19       |              |  |  |          | L  |                  | L             | L              |            | ] |            | 69       | $\coprod$       |          |         | Ш               |          |      |          |       |          | 119      |          |                 |          |          |          |          |          |           |          |
|              | 20       |              |  |  |          |  |                  |               |                |            |   |            | 70       | <u> </u>        |          |         |                 |          |      |          |       |          | 120      |          |                 |          |          |          |          |          |           |          |
|              | 21       |              |  |  |          |  |                  |               |                |            | ] |            | 71       |                 |          |         |                 |          | 1    | I        |       |          | 121      |          | H               |          |          |          |          | П        | П         |          |
|              | 22       |              | Γ  |  |          | Γ  |                  | Г             |                | Π          | ] |            | 72       | П               |          |         | П               |          |      |          |       |          | 122      |          | П               |          | T        |          |          | $\neg$   |           | $\neg$   |
|              | 23       |              | П  |  |          | П  |                  | Г             |                |            | 1 |            | 73       | П               |          |         | П               |          |      | Ι        |       |          | 123      |          | П               |          |          |          | ٦        |          |           | $\neg$   |
|              | 24       |              | Г  |  |          | Г  | Г                |               | П              |            | 7 |            | 74       |                 |          |         | П               |          |      |          |       |          | 124      |          | П               | T        | Ī        |          |          | $\neg$   | $\Box$    | $\neg$   |
|              | 25       |              |  |  |          | Π  | Г                |               | П              |            |   |            | 75       | П               |          |         | $\Box$          |          | _    | 1        |       |          | 125      |          | П               | 丁        |          |          |          |          | $\exists$ | ヿ        |
|              | 26       |              | T  |  |          |  | T                |               |                |            | 1 |            | 76       | $\Box$          |          |         |                 |          |      | $\vdash$ |       |          | 126      |          | $\Box$          | 寸        |          |          |          | ヿ        | ヿ         | ヿ        |
|              | 27       |              | T  | $\vdash$   |          |  |                  | T             |                |            | 1 |            | 77       | П               |          |         | $\Box$          | _        |      | T        |       |          | 127      |          | $\Box$          | ヿ        |          |          |          | $\neg$   | 寸         | ヿ        |
|              | 28       | $\vdash$     | Г  |  | Г        | ऻ  | T                | ऻ             | $\vdash$       |            | 1 |            | 78       | $\vdash$        |          |         | $\Box$          | $\neg$   | _    | T        |       |          | 128      |          | $\vdash$        | 寸        | $\neg$   | _        |          | T        | 寸         | ⊣        |
|              | 29       | T            | Г  | T  | _        |  | -                |               | <b>!</b>       | 1          | 1 |            | 79       | $\Box$          | _        | 1       | $\vdash$        | _        | ╅    | †        |       |          | 129      |          | H               | 寸        | $\neg$   |          |          | 7        | $\dashv$  | $\dashv$ |
|              | 30       | ┢            | T  | $\vdash$   | $\vdash$ | T  | ╁                | $\vdash$      | $\vdash$       | $\vdash$   | 1 |            | 80       |                 | $\dashv$ | +-      | †==+            | _        | +    | $\vdash$ |       |          | 130      |          | $\vdash$        | _        | $\dashv$ | _        | $\dashv$ | +        | 寸         | ᅱ        |
|              | 31       | T            | t  | T  | $\vdash$ | $\vdash$   | 一                |               | H              | $\vdash$   | 1 |            | 81       | 1-1             |          |         | $\Box$          | _        | +    | 十        | 1     |          | 131      | _        | $\vdash$        | $\dashv$ | ┪        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | ᅥ        |
|              | 32       | -            | -  |  |          | <u> </u>   | -                | -             | ╁╌             | 1          | 1 |            | 82       | $\vdash$        |          |         | $\vdash$        |          | +    | T        | 1     |          | 132      | _        | $\vdash$        | 一        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$  | $\dashv$ |
|              | 33       | <u> </u>     | H  | ┢  | ┢╾       | <del>                                     </del> | -                | <del> </del>  | t              | $\vdash$   | 1 | _          | 83       | $\vdash$        | +        |         | $\Box$          | $\dashv$ | +    | +        |       |          | 133      | _        | $\vdash$        | 一        | -        | -        | $\dashv$ | 7        | -+        | 一        |
| <b> </b>     | 34       | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$         | 1             | t              | t          | 1 | <b>—</b>   | 84       | $\vdash$        | -        | +-      | +               |          | +    | $\vdash$ | l     |          | 134      | Н        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
|              | 35       | $\vdash$     | ╁  | $\vdash$   | -        | $\vdash$   | $\vdash$         | ╁             | ╁              | $\vdash$   | 1 | $\vdash$   | 85       | $\vdash$        |          | +-      | +               |          | +    | +        | 1     |          | 135      | $\vdash$ | $\vdash \vdash$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
| -            | 36       | $\vdash$     | $\vdash$   | $\vdash$   |          | $\vdash$   | +-               | <del> </del>  | $\vdash$       | $\vdash$   | 1 |            | 86       | $\vdash$        | -+       | +-      | +               | +-       | +    | $\vdash$ | ł     |          | 136      | $\vdash$ | $\vdash$        | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
| -            | 37       | $\vdash$     | $\vdash$   | -  | ┢        | ╁  | ╁╌               | -             | $\vdash$       | ╁          | 1 | <u> </u>   | 87       | $\vdash$        | +        | +-      | + +             |          | +    | +        | ł     |          | 137      | $\vdash$ | $\vdash$        | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
|              | 38       | -            | <del>                                     </del> | $\vdash$   | $\vdash$ | -  | ╁                | -             | $\vdash$       | $\vdash$   | 1 | <b>-</b>   | 88       | $\vdash \vdash$ | -        | +-      | ╅═┩             | -+-      | +    | ╁        | ł     |          | 138      | -        | $\vdash$        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
| <u> </u>     | 39       | ⊢            | ⊢  | $\vdash$   | $\vdash$ | ⊢  | ⊢                | $\vdash$      | $\vdash$       | ╁          | 1 | <b></b>    | 89       | $\vdash$        |          | +       | +-              | +        | +    | ╁        | ł     | <u> </u> | 139      |          | $\vdash \vdash$ | -        | $\dashv$ | $\dashv$ |          | -        | $\dashv$  | $\dashv$ |
| <b></b>      | 40       | -            | $\vdash$   | -  | $\vdash$ | -  | ╌                | 1             | $\vdash$       | ╁          | ┨ | <b></b>    | 90       | +               | +        | +       | +-              | +        | +    | +        | ł     | ļ        | 140      | $\vdash$ | ⊢⊦              |          | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
| <b></b>      | 40       | -            |  | -  | <u> </u> | $\vdash$   | 1                | -             | $\vdash$       | -          | - | ├          |          | ⊢⊦              | $\dashv$ | +       | +-              | +        | +    | -        | ł     |          | 140      | -        | ┝               |          |          | $\dashv$ |          |          | -         | ᅴ        |
| <b></b>      | 41       | ├            | <del> </del>                                     | <del> </del>                                     | $\vdash$ | $\vdash$   | ⊢                | $\vdash$      | ⊢              | -          | - | <b>-</b>   | 91       | ⊢┤              | -        |         | <del>  - </del> | +        | +-   | ┼        |       |          | 141      | H        | $\vdash$        | -        |          |          |          | -        | $\dashv$  | $\dashv$ |
| <del> </del> | 42       | ⊢            | $\vdash$   | $\vdash$   | ├-       | $\vdash$   | <del> </del>     | -             | ╀              | +          | 1 | <u> </u>   | 92       | ┥               |          | +       | +-              | -        | +    | $\vdash$ | 1     |          | 142      | $\vdash$ |                 | -        |          | -        |          | _}       | -         | 괵        |
|              | 43       | -            | ⊢  | -  | $\vdash$ | $\vdash$   | <b>├</b> -       | -             | ╀              | ⊢          | - | <u> </u>   | 93       | $\vdash$        | -        | +       | +               |          |      | ╀        | l     | L        | 143      | Н        | $\vdash \vdash$ | -        |          | 4        |          | _        | _         | ᆜ        |
| <u> </u>     | 44       | <u> </u>     | $\vdash$   | <del>                                     </del> | <u> </u> | ├  | ⊢                | ⊢             | +-             |            | 4 | <b></b>    | 94       | $\vdash$        | +        | +-      | $\vdash$        | 4        |      | ₽        | l     |          | 144      | $\vdash$ | $\sqcup$        | 4        | _        | _        | _        | 4        | _         | _        |
| <u> </u>     | 45       | <b>!</b> —   | Ь—   | <u> </u>   | <b> </b> | ├  |                  | <b>⊢</b>      | ₩              | ┞          | 4 | <u> </u>   | 95       | $\vdash$        | -        | 4       | ╁┷╁             | 4        |      | 1        |       |          | 145      | $\vdash$ | $\vdash \vdash$ | _        | _        |          | _        | 4        | _         |          |
| <u> </u>     | 46       | <u> </u>     | L  | <u> </u>   | <u> </u> | <u> </u>   | ↓_               | <del> _</del> | <del> </del> _ | _          | 4 | <u> </u>   | 96       | ╙               |          | $\bot$  | $\Box$          |          | +    | _        |       |          | 146      | Ш        | $\sqcup$        |          |          |          |          | _        | $\dashv$  | Щ        |
| <u> </u>     | 47       | <u> </u>     | _  |  | <u> </u> | <u> </u>   | <u> </u>         | <u> </u>      | <u> </u>       | <u> </u>   | 4 | <u> </u>   | 97       | $\sqcup$        | _        | 4       | 11              | $\bot$   | _    | <u> </u> |       |          | 147      | Ш        | Ш               | $\dashv$ |          |          |          |          | $\dashv$  | Ц        |
| <u> </u>     | 48       | <u> </u>     | $ldsymbol{f eta}$                                | $\vdash$   | <u> </u> | <u> </u>   | ┞                | <u> </u>      | 1_             | <b>!</b>   | 4 |            | 98       | $\sqcup$        |          | $\perp$ | $\sqcup$        |          | _    | _        |       |          | 148      | Ш        | $\sqcup$        | _        | _        |          |          |          | $\sqcup$  |          |
| <u> </u>     | 49       | <u> </u>     | Ш  | <u> </u>   | L_       | <u> </u>   | ┞-               | $\vdash$      | <u></u>        | _          |   | <u> </u>   | 99       | $\sqcup$        |          | $\perp$ | $\sqcup$        | $\perp$  |      | <u> </u> |       |          | 149      | Ш        | $\sqcup \bot$   | _        |          |          |          |          | _         | ]        |
|              | 50       |              | Ш  |  |          |  | $\mathbb{L}_{-}$ |               | <u></u>        | <u>L.</u>  |   | l          | 100      | L               |          |         | 1               |          |      | 1        | liiii |          | 150      |          |                 | - [      | ŀ        | - 1      | - 1      |          | - 1       | 1        |